



## **Creating a Branch Status Review**

**Presented by: Sally Godfrey** 

Software Process Improvement (SPI) Project



## **Purpose and Objectives**



- Purpose: Describe the recommended contents of a BSR
- Objective After this session you should have learned:
  - Why BSRs should be done for each project
     Team
  - What goes into a "compliant" BSR
  - What the SPI template for a BSR looks like
  - How to use the BSR template
  - What information you should be keeping from every BSR



## **Status Reviews Are a NASA Requirement**



NPR 7150.2, SWE-018: A project "shall regularly hold reviews of software activities, status, and results with the project stakeholders and track issues to resolution".

- This includes formal "end-of-phase" reviews and regular status reviews to management
- Status reviews to management are recommended monthly via Branch Status Reviews (BSRs)
- Recommended topics include the following:
  - Activities and Accomplishments
  - Schedules and Progress
  - Measurements
  - Risks
  - Issues



# Status Reviews Are Also a CMMI Requirement



NPR 7150.2, SWE-032: A project "... shall ensure that software is developed by ... an organization that has a CMMI®-SE/SW Capability Level 2 or higher".

- Per the NPR, all projects developing Class B Software must comply with CMMI Level 2
- Status reporting requirements for projects at CMMI Level 2 include process related topics as well as technical topics
- THE GOOD NEWS ... it isn't hard to meet the requirements if you use the SPI template at

http://software.gsfc.nasa.gov/AssetsApproved/PA1.4.3.4.ppt



## What's Required in Branch Status Reviews?



### BSRs must include:

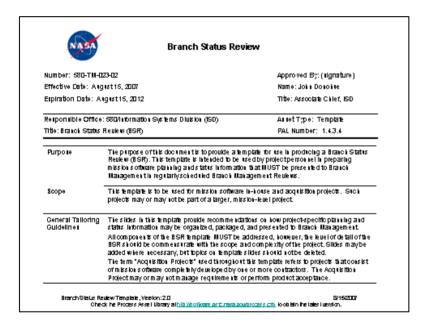
- Assessment of activity status against plans
- Review of project measures like earned value and point counting
- Review of project risks, highlighting changes in risk status and implementation of mitigation plans
- Indication of changes in key planning parameters including schedule and cost
- Assessment of any issues affecting project
- Reporting of process activities (activities, status, and results)
- Minutes and Action Items must be recorded
  - BSR meeting attendance must be recorded and minutes be taken
  - Action items and issues developed during BSRs must be documented and ... tracked to closure

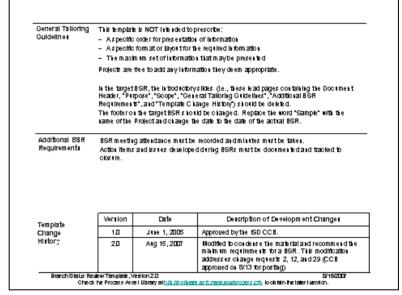


## What Does the Template Look Like?



## The first slides are formatted like other assets





The remaining slides include instructions and examples of what the BSR slide would look like ...



## **Title**



## <Project> Status

Activities and Accomplishments
Schedules and Progress
Measurements
Risks
Issues
Monitoring

These are the topics covered in the BSR template

<Month/Year> <Preparer>



## **Activities and Accomplishments**



- Prepare one or more slides that describe your project's activities and accomplishments
- Minimum Requirements:
  - State your project's activities and work product status against planned schedule. Include:
    - Technical, management, and process activities
    - Status and results of the activities
    - Issues or deviations from plan
    - Results of milestone reviews (e.g., SRR, PDR, CDR)
    - As appropriate, involvement of other groups/personnel (i.e., "stakeholders") in achieving completion of the activity/accomplishment
  - State your project's planned activities for next reporting period
- Preferred method of presentation:
  - Consider organizing this slide under a high level breakout that is appropriate for your project – for example: Project phases (e.g., development / test / operations); Major systems or subsystems; Project Teams (e.g., engineers / developers / testers)



# Activities and Accomplishments: Reporting Process Activities (1 of 3) Constructions GSFC

For the reporting period, address process activities / milestones you worked on, such as those listed below.

#### **Project Planning**

WBS Defined

Project costs estimated

Project schedules defined

Project Life cycle selected and documented

Initial risks identified

Data management planned

Training planned

Stakeholder involvement planned

Product plan written, signed, reviewed

#### **Project Monitoring and Control**

Completed milestones for deliverables

Review and update of risks

Review of budget, effort, schedule

Verify stakeholder involvement

Conduct progress reviews

Conduct milestone reviews

Review of action items, issues

Analysis of issues

Closure of issues

#### **Configuration Management**

Configuration items identified

Configuration tool in place

CM plan complete

CCB established

CCB meetings

Configuration audits

CM managed items baselined

#### **Requirements Management**

Meetings with customer to understand requirements

Requirements document approved

Bi-direction Traceability matrix complete

Requirements changes analyzed and controlled

#### **Measurement and Analysis**

Measurement objectives established

Measurement set established

Measurement tools and repository in place Collection and analysis procedures defined

Regularly scheduled metrics collections

Measurements analyzed

Measurement results reported

#### **Process and Product QA**

Meet with Code 300 to plan assurance Software assurance plan reviewed Assurance audits for product scheduled Assurance audits for process scheduled Meetings to discuss audit findings Responses to audit action items

#### **Supplier Agreement Management**

Work with procurement to plan acquisition Completed RFP, SOW and evaluation criteria Signed contract/task in place

Regular status activities with contractor Acceptance of products from contractor

Products transitioned into use

#### **Risk Management**

Risk management strategy established

Risk parameters determined

Risks identified, categorized and analyzed

Risks monitored regularly

Necessary risk mitigation plans established Risk mitigations initiated, if necessary



# Activities and Accomplishments: Reporting Process Activities (2 of 3) Structions GSFC

For the reporting period, address process activities / milestones you worked on, such as those listed below.

#### Requirements Development

Stakeholder/customer needs collected
Requirements developed, documented
Lower level requirements developed
Requirements alocated to components
Interface requirements identified
Operational concepts and scenarios established
Definition of required functionality established
Requirements analyzed
Requirements validated

#### **Verification and Validation**

Products selected for verification/validation
Environment for verificatioin/validation established
Procedures & criteria for V&V established
Inspections planned, conducted
Inspection results analyzed
Verification or validation performed
Results of verification or validation analyzed

#### Implementation (Product Integration)

Integration environment established
Integration procedures and criteria established
ICDs reviewed for completeness
Interface changes managed
Readiness for integration confirmed
Components integrated
Successful integration verified
Product delivery to testing

#### Implementation (Technical Solution)

Alternate solutions/criteria for selection developed Solutions selected
Make, or buy decision made; reuse analysis done Design developed, documented, reviewed Interfaces designed, ICD's complete Code reviews/inspections complete Implementation of build, release completed Product documentation developed (user guide, etc)

#### **Integrated Project Management**

Organizational assets used for process
Project's work environment established
Project plan integrated as necessary
Project managed according to integrated plan
Assets given to organizational repository (PAL)
Stakeholder involvement managed
Dependencies managed
Coordination issues resolved

#### **Decision Analysis Resolution**

Decision Analysis guidelines established Evaluation criteria for decision established Alternate solutions developed Evalution methods selected Alternatives evaluated Solution selected



# Activities and Accomplishments: Reporting Process Activities (3 of 3) Instructions GSFC

- CMMI requires that you report on process activities performed and status for each NPR-identified process area:
  - Planning
  - Monitoring and Controlling
  - Requirements Management
  - Risk Management
  - Supplier Agreement Management
  - Measurement and Analysis
  - Configuration Management
  - Process and Product Quality Assurance

#### For Every Process Area as Appropriate

Policy identified and in use

Planning for process area completed

Responsibility for process area assigned

Resources for process area identified and acquired

Training for process area completed

Stakeholders identified and involved

Process area data identified/managed

Process area activities monitored/measured

Process area audit conducted

Process area activities reported



## Activities and Accomplishments (Development Project Example)



## Management

- Established the CM approach and obtained approval from Branch Management one week later than planned
- Prepared CM plan draft and distributed it for review by the development, test, and customer teams as scheduled
- Expected commitment on funding for FY07 was not received May 1st as planned
- Plans for next month:
  - Obtain commitment on funding for FY07
  - Deliver and obtain comments on Project Management Plan Review version

## Development

- Started Build 1 one week later than planned because security checks on the development lab took longer than anticipated
- **–** .....
- Plans for next month:
  - Complete operating system configuration in development lab



## Activities and Accomplishments (Acquisition Project Example)



#### Contract Administration

- Drafted the SOW for the contract mod as scheduled. This mod will extend the contract to September 30, 2008.
- Started draft of the surveillance plan as scheduled.
- Plans for next month:
  - Submit completed package to the CO

### Monitoring

- Reviewed the delivered Build 1 Test Plan as scheduled.
- Held a status review with the XYZ contractor 2 weeks later than planned to accommodate vacation schedules.
- Plans for next month:
  - Conduct CM Audit of government documentation

#### Contractor XYZ

- Started Build 1 one week later than planned because security checks on the development lab took longer than anticipated
- .....
- Plans for next month:
  - Complete operating system configuration in development lab



### **Schedule**

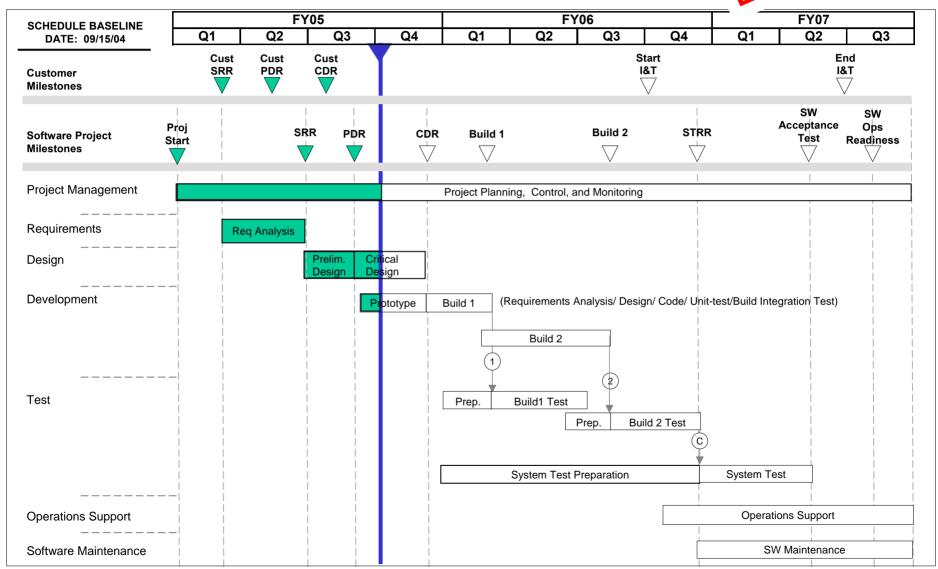


- Prepare one or more slides that show your project's schedule AND your project's progress against that schedule
  - Milestones complete against plan
  - Progress Tracking points planned vs actual
- Minimum Requirements:
  - Slide must address your project's schedule AND progress against that schedule
  - Schedule must include, at a minimum, major activities and major milestones to be met for each activity
  - Schedule must include management, technical, and process activities
- Preferred method of presentation:
  - Best to show one chart with complete multi-year schedule and a second more detailed chart with shorter period (12-18 months)
  - Any schedule format that can demonstrate both planned activities AND progress against those activities



## **Project Schedule Overview**







## **Project Detailed Status**



SCHEDULE BASELINE DATE: 09/15/0 WBS / Activities	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05
Life-Cycle Milestones				<b>√</b> SRR		√PDR		\_CDR			√BLD 1	
Management	SMP Drft	SMP Fin				SMP Rev1			SMP Rev2			
System Engineering		I/F Anal (P)	ICDs (R)	1	Ds Ma F) Bi		ICDs Revision 1					
Requirements Analysis			Sys Req (P)	Sys Reg (R)	Sys Reg (F)	Sys F Rev <u>isi</u>		Sys Req Revision 2				
Configuration Management	CM Plan Review	CM Plan Approved			Req Baseline	CM Audit 1	1				Bld 1 Baseline	
Hardware Development						Order Tes Equip	t C	rder Ops Equip	Install T Equip		ln	stall Ops Equip
Software Development					Proof of Concep			Prototy	/pe		uild 1 Test	
Software/System Testing				Test Plai Review				Test Sce Ap <del>pro</del>	narios Tes ved Se	Env Up		
Operations Support			_									



## **Measurement Summary**

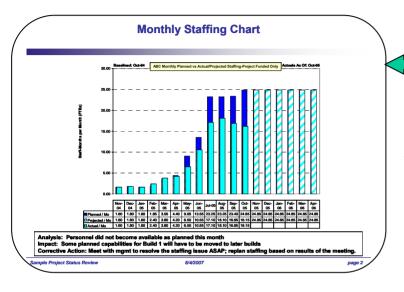


- Prepare one or more slides that address project measures
- Minimum Requirements:
  - Select measurement summary slides based on phase of project Potentials:
    - Any phase: staffing summary, process effort charts, audit results
    - Early: requirement volatility, review action status, inspection summary
    - Implementation: point counting, change requests
    - Testing: point counting, problem reports, change requests
    - Delivery: functionality
  - Include analysis, impact, and corrective actions with each measure
- Preferred method of presentation:
  - Charts or graphs are preferred, with words to show an analysis of the metrics (i.e., describe the essence of what the chart is showing), impacts or potential impacts on the project, corrective actions taken or planned to be taken

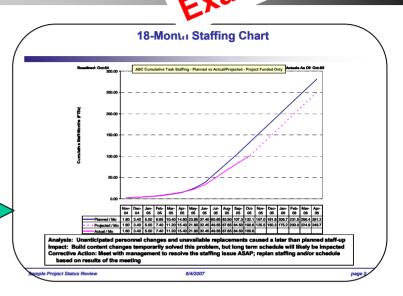


## Measurement Summary Slides (Any Phase)









#### **Process Effort**

		Monthly E	ffort by Pro	cess Are	a	Actuals As Of: Dec-06
Process Area	Planned Effort	Actual Effort	Variance	% Var.	Analysis	Corrective Plan
Management Project Planning Project Monitoring and Control Measurement & Analysis Risk Management Acquisition Management	3.05	2.50	0.55	18%	Management effort met the plan; all activities completed according to plan.	No corrective action needed
Configuration Management	1.00	0.54	0.46	46%	No major CM actions/deliveries this month.	No corrective action needed
Process and Product QA	0.10	0.10	0.00	0%	Staff was sufficient this month to provide required support.	No corrective action needed
Engineering Systems Engineering Dev & Test Environment Eng Requirements Development Requirements Management	1.40	0.95	0.45	32%	Most staff took vacation the last week of the December	No corrective action needed
Development	10.95	8.46	2.49	23%	Most staff took vacation the last week of the December	No corrective action needed
Verification and Validation	9.65	8.44	1.21	13%	Most staff took vacation the last week of the December	No corrective action needed

Sample: Process Effort

Sample: Audit Results

#### **Audit Findings and Corrective Actions**

Rec #	Audit Date	Process or Product Audit	Finding Description	Corrective Action (CA) Description	Assignee	Planned CA Due Date	Re-Assess ment Date	Date Closed	Status
1	01/13/06		The CM Plan did not follow the designated template. Several sections (e.g., configuration audits, status accounting) were omitted	Revise the current CM Plan to adhere to ISD's template and include all required information	John Doe	04/05/06	04/06/06	04/06/06	MM/DD/YY: Status to date
3	05/05/06 06/01/06		No Findings Risks have not been updated or monitored for 5 months. The Risk Management Plan (RMP)	Risk Meetings need to resume on a monthly basis to monitor and status open risks	Jane Doe	07/01/06	08/05/06	08/05/06	08/05/06: Risk meetings were conducted for July and August and the risks have been statused appropriately 07/15/06: A
			states that risks will be statused on a monthly basis						Risk meeting was conducted on July 7th Note: Consecutive meetings need to occur before this finding can be closed
4	06/01/06	RSKM Process	The project is not using the required 5x5 risk matrix (per the RMP)	Convert the current 3x3 matrix to a 5x5	Jane Doe	07/01/06	07/07/06	07/07/06	07/07/06: The matrix was successfully converted to the standard 5x5 risk cube
5	06/07/06	VDD	The VDD for Release 2.0 did not include all required information per the template	Update the VDD to include the list of Workarounds.	Jane Doe	06/12/06			08/13/06: Release 2.0 has been postponed until September 1st to include a new Severity 1 SPR. 07/01/06: Release 2.0 was held up and will be redelivered 08/10



## A Note About the Process Effort Slide



- This slide is REQUIRED if you are working on Class B software!
- Why? Because you must be CMMI Level 2 compliant, which means collecting "process metrics", like planned versus actual effort

#### **Process Effort**

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Sample Project Status Review

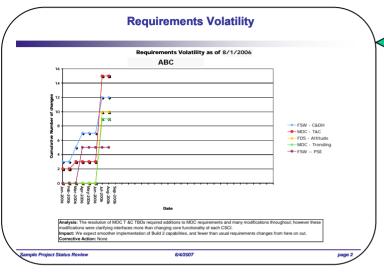
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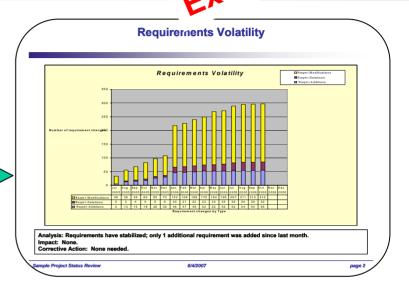


Measurement Summary Slides (Early Phases)





#### Samples: Requirements Volatility



#### **RFA Status**

Review	Date	RFAs Opened	RFAs Resolved	RFAs Closed	Avg Days t
SRR	11/08/05	35	35	35	147
PDR	05/15/06	28	22	3	250
CDR	04/17/07				

Analysis: Too many PDR RFAs remain open at this point. Impact: Date of the CDR may be impacted if the PDR RFAs are not closed next month. Corrective Action: Schedule weekly meetings with one or more RFA submitters to achieve closure

ole Project Status Review 6/4/2007

## Sample: Review Actions

Sample: Inspection Summary

#### **Subsystem 1 Inspection Measures**

	-						Defects		_	Action	
		Review	Total	Meeting	Number	Number	Number	Number		Open	Close
Item Inspected	Author	Date	Effort	Length	Attendees	Found	Corrected	Deferred	Inspection Type	Actions	Action
ABC Design	Sally	01/03/06			6	22	22		Unit Design	7	
DEF Requirements	Sue	01/24/06			11	25	21		Requirements	17	
GHI Design	Mike	02/01/06		2.00	6	14	12		Unit Design	9	
DEF Design	Sue	02/10/06	17.50	2.00	7	19	19	0	Unit Design	12	
DLS Design	Mike	02/15/06	6.50	2.25	8	8	8	0	Unit Design	23	
DLS Code	Mike	02/27/06	2.75	2.50	6	24	6	18	Unit Code	21	
ABC Code	Sally	02/28/06	4.30	2.50	8	16	10	6	Unit Code	19	
LMN Requirements	Jane	03/01/06	23.50	2.50	12	34	19	15	Requirements	34	
DEF Code	Harry	03/15/06	15.00	3.00	5	3	3	0	Unit Code	6	
XYZ Requirements	Harry	03/17/06	1.25	2.00	4	7	7	0	Requirements	26	
LMN Design	Jane	03/22/06	1.50	1.50	4	11	7	4	Unit Design	8	
XYZ Design	Harry	03/28/06	6.25	2.00	6	19	17	2	Unit Design	10	

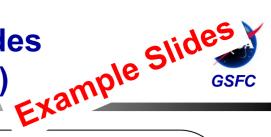
Analysis: Inspections are progressing as planned, except one planned for this month was postponed until next month due to Harry's unplanned leave. Impact: None. Corrective Action: Reassign personnel to Harry's work if he doesn't return this week.

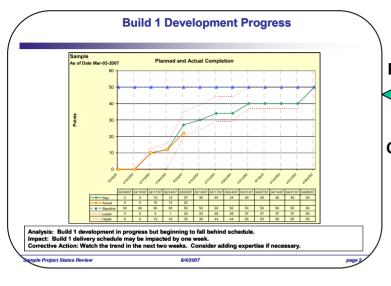
Corrective Action: Reassign personnel to Harry's work if he doesn't return this week

le Project Status Review



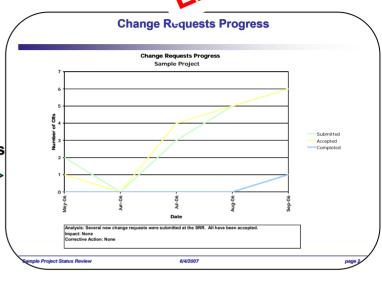
## **Measurement Summary Slides** (Implementation / Testing)

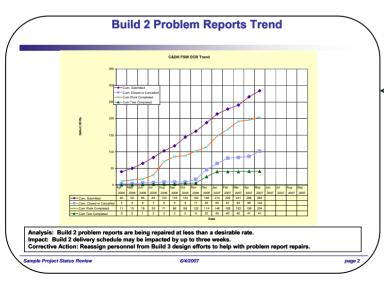




Sample: Point Counting

Sample: Change Requests





Sample: Problem Reports

> Sample: Defects by Priority

0 t	Open Defects by Priority						
Subsystem/Build	High	Medium	Low	N/S	Total Oper		
Subsytem 1							
Build 1	0	0	0	0	0		
Build 2	13	37	34	2	86		
Build 3	0	0	0	0	0		
Subsystem 2							
Build 1	0	3	2	1	6		
Build 2	0	2	0	1	3		
Build 3	0	0	0	0	0		
Not Specified							
	2	0	1	1	4		
Totals	15	42	37	5	99		

**Open Defects By Priority** 

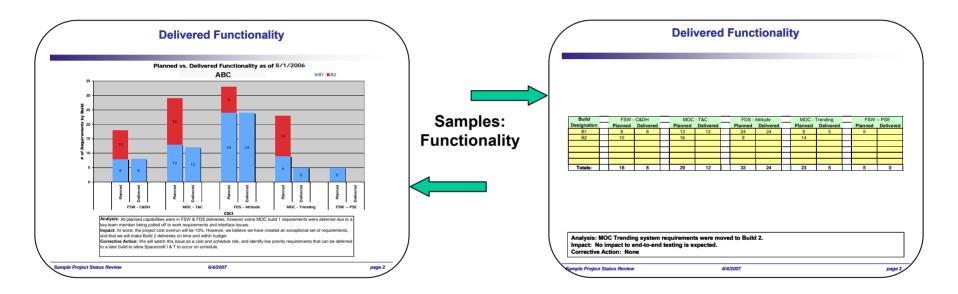
Analysis: The 15 high priority defects are being worked, however, 2 of them require additional information. Impact: None at this time. Corrective Action: The system engineer will be consulted to assist in resolving the 2 defects requiring additional

information.



# Measurement Summary Slides (Delivery)







## **Risks**



- Provide a summary of each risk and a risk matrix
- If there are Red risks, provide additional slide(s) with details on these risks
- Minimum Requirements:
  - Slide(s) must address your project's risks and must address at least all Red risks
  - Risk Summary Slide must include at least:
    - Risk Matrix (i.e., the NASA Risk Cube)
    - Clear, concise statement of each risk
    - Date each risk was last reviewed and/or updated
    - Summary of status on each risk (e.g., rank, trend, exposure, person to which risk is assigned, time period risk may become a problem, current state (i.e., research, accept, watch, mitigate, retired)
  - Risk Details Slide must include the above and at least:
    - Source and Category of the risk
    - Mitigation steps
- Preferred method of presentation:
  - Reports from the Risk Management Tool (http://software.gsfc.nasa.gov/tools.cfm), however, any format that can fully describe the required items is acceptable



## **Risk Summary**



**Report Date:** 

08/01/06

Project: Sample

| Project | Color | C

Exposure	New	Modified	Retired	Open
R	0	1	0	1
Y	0	0	0	1
G	1	0	0	2
Totals	1	1	0	4

Risk ID	Rank	Trend	Risk Title	Assigned To	Exposure	Timeframe	State	Identified	Reviewed
1	1	W	My First Risk	Bob	R	1-3 mo	Mitigate	05/18/06	07/30/06
2	3	U	My Second Risk	Mike	G	1-3 mo	Research	05/18/06	07/30/06
3	2	ı	A Third Risk	Dave	Y	1-3 mo	Watch	06/15/06	07/15/06
4	4	N	And a 4th Risk	Donna	G	> 3 mo	Research	07/15/06	07/15/06

This example uses the format in the Risk Management Tool (http://software.gsfc.nasa.gov/tools.cfm), however, any format that can fully describe the required items is acceptable.



## **Risk Details**



		Project: Sample	Report Date:	1/06ں،ر
Risk ID:	1	My First Risk	State:	Mitigate
Identified:	05/18/06	R	Rank:	1
Originator:	Jane	(Exposure (calculated)) ▲	Source:	Tech
Assigned To:	Bob		Category:	Technica
Probability:	Very High		Visibility:	External
Impact:	High	Trend ▼	Reviewed:	07/30/06
Timeframe:	1-3 mo	Worsening	Modified:	07/30/06
	Condition:	Because of the complexity of the varied instrument interfaces to be accomodated		
	Consequence:	The team could miss some specific interface details, causing problems during interface testing.		
	Context:	The mission includes three instruments and one tech demo experiment. Because each instrument has heritage, there are seven unique interface protocols to deal with in the xyz software. While each protocol is fairly simple by itself, considered all together, the combination is very complicated.		
	Status:			
		July 2006 - All ICDs were approved.		
		June 2006 - The Instrument Manager code is being prototyped in		
		Build 2. Interface tests with instrument breadboards/ETUs will begin in September.		
Assigned To	Step Number	Mitigation Step Description / Status	Planned	Actual
<name></name>	1	Description of Step 1	<date></date>	<date></date>
<name></name>	2	Description of Step 2	<date></date>	<date></date>
<name></name>	3	Description of Step 3	<date></date>	<date></date>
	4	Description of Step 4	<date></date>	<date></date>

This example uses the format in the Risk Management Tool (http://software.gsfc.nasa.gov/tools.cfm), however, any format that can fully describe the required items is acceptable.



## Issues



- Provide a brief description of each issue for the purposes of:
  - Bringing them to management's attention
  - Obtaining management direction
  - Soliciting management's assistance in resolving
- Minimum Requirements:
  - Slide(s) must address the project's technical, management, and/or process issues and must include at least:
    - Issue: Clear, concise statement of the problem or concern
    - Analysis: An analysis of the issue including specific internal and external groups/personnel that may be affected or need to be involved in resolving the issue
    - Impact: Specific, quantifiable impact(s) on your project
    - Action Plan: Action(s) that are planned and dates the actions are to be completed
    - Status: Current progress against the action plan including actual completion date(s)
- Preferred method of presentation:
  - Use any format that can fully describe the required items



## Issues



#### Sample Project Issues Log

As of: 09/15/06

Issue	Analysis / Impact	Action Plan	Status
CM procedures document has been stalled for months	An early draft of this document was written, but no progress on it has been accomplished in the last few months.  Impact: Teams will be unable to consistently and correctly apply CM procedures without this document.	PDL will ask the Branch for some of Suzie's time to finish this document. Action Due Date: 10/01/06	09/06: New issue this month.
Hard Disk Recorder Implementation: New architecture makes old SRR requirements obsolete.	SW from three groups (GSFC, BAE, GD) has to interface to make this system work.  Impact: Detailed Reqts must go into the new contract SOW.	Convince project to delay the SOW until SW requirements can be refined.	09/06: SOW has been released with high-level SW requirements. Development of detailed Reqts Doc is part of the contract. This issue can be closed. 08/06: New issue this month.
Subsystem 1 Development Team is understaffed.	Staff-up of Subsystem 1 has not been accomplished as planned. Will need to staff with very experienced personnel to minimize impact.  Impact: Planned Build 1 contents or schedule are in jeopardy	Work with Branch management to identify experienced personnel. Action Due Date: 08/01/06	08/06: Davey Jones joined the team this month. This issue is now closed. 07/06: Created new plan. Build 1 date has not slipped; however the contents of the build have been adjusted. Issue will remain open until staff is added.

This example uses the format in the Issues Tracking Tool (http://software.gsfc.nasa.gov/tools.cfm), however, any format that can fully describe the required items is acceptable.



# NEW CHART: Areas for Improvement ctions

- Provide a "Stop-Light Chart" that shows the status of processes deployed on the project
  - Note if available staff is adequate to implement the process
  - Note if process is efficient or needs improvement
  - Comment column must contain input for any red indicators
  - Comment column input for is suggested for any yellow indicators
- Use the data from the staffing tool (where available) to help identify staffing issues



# Areas for Improvement Process Monitoring Chart (DRAFT) Example

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211/
GSFC

Processes	Sufficient Staff?	Process Efficiency	Comments / Improvement Suggestions (Date each entry; Entry is required when RED)
Management			
Project Planning			12/1/07 Too much time spend on reviews and approvals
Project Monitoring & Control			
Measurement & Analysis			
Risk Management			12/1/07 See Issue #7
Acquisition Management			
Configuration Management			12/5/07 CM audits take a lot of effort – See Issue #13
Process & Product QA	<u> </u>		12/5/07 Audits are always late and after the fact
<u>Engineering</u>			
Systems Engineering			
Dev & Test Env Engineering			12/4/07 Latest env. decisions and impl. will overload avail staff
Requirements Development			12/5/07 Tailored peer review process takes too long
Requirements Management			12/6/07 No staff to maint. tool. Takes too long get Reqs. updated
Development			
Verification & Validation			12/5/07 Status tracking duplicative and taking to long

No issues Small impact, inefficient process
Creating a Branch Status Review, January 2009



## **Monitoring Summary**



- Provide a summary of monitoring activities
- Minimum Requirements:
  - Slide must show the date the following were last monitored:
    - Team Training
      - Monitoring of planned vs actual team training is required at least quarterly
    - Commitments
      - Monitoring of planned vs actual commitments (i.e., deliverables, receivables, and services) is required at least monthly
    - Data Management
      - Monitoring of items on the Data Management List is required at least quarterly, with every item checked at least once per year
    - Stakeholder Involvement
      - Monitoring of planned vs actual stakeholder involvement is required at least monthly
    - Risks
      - Monitoring of risks is required at least monthly
- Preferred method of presentation:
  - Use any format that can fully describe the required items



## **Monitoring Summary** (Likely to Change)



#### Risks

 Risks were last updated on December 18 as shown on previous slides.

## Team Training

 Training records were reviewed on December 15 and updated to reflect technical training per comments received in the CMMI appraisal.

#### Commitments

The commitment list was last reviewed on December 20. There were no updates needed.

## Data Management

 The DML was last monitored on December 22and updates were made as necessary to reflect current status and to address comments received in the CMMI appraisal.

#### Stakeholder Involvement

 The Stakeholder Table was last monitored on December 20 and updates were made as necessary to reflect current status and to address comments received in the CMMI appraisal.



## After You Create Your BSR ...



- Keep all important artifacts stored in an information repository
  - All presentation packages for status reviews
  - Minutes, attendance, action items from reviews
- Artifacts may be kept by you or by the Branch Head
  - Coordinate so you know who is keeping the records
  - Document the location of BSR artifacts so everyone can find them
    - Suggestion: use the Data Management List tool that will be discussed in a future Engineering Discussion



## **Summary**



- Regular status reviews are required by NPR 7150.2
- For projects doing Class B software, status reviews must be CMMI compliant
- The SPI template describes all necessary charts for a CMMI-compliant BSR
- The SPI template is available at:

http://software.gsfc.nasa.gov/AssetsApproved/PA1.4.3.4.ppt

- You need to keep the slides, minutes, attendance, and action items from every BSR
  - ... and track the action items to closure!





## Questions?